STATISTICAL ANALYSIS VS MACHINE LEARNING

Machine learning builds a predictor for classification or regression, but is often a black box. Statistical Analysis utilises probability theory to answer questions instead.

STATISTICAL ANALYSIS WORKFLOW:

MACHINE LEARNING WORKFLOW:

1. Normalise data, determine interesting features

2. Formulate question mathematically

2. Split data into training, testing, validation

3. Quantify and visualise relationships and distributions

3. Train a ML model

4. Construct a model using probability theory

4. Validate model

5. Apply to your question